

## Math Academy 2011

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Shift 1

## Mini Review

Discuss with your partner the Instructional Shifts already discussed today and yesterday.

## Shift #1

- Incorporate ongoing cumulative review into every day's lesson.

## Rationale

- Skills, terms and concepts are constantly being forgot or confused.
- Foster mastery and retention of critical mathematics skills and concepts.

### Example

- 1.  $6 \times 7$  (Number fact)
- 2. What number is 1000 less than 18,294? (Place value)
- 3. About how much is 29 cents and 32 cents? (Estimation)
- 4. What is  $\frac{1}{10}$  of 450? (Math skill)
- 5. Draw a picture of 123 (Visualization)
- 6. Estimate my weight in kilograms (Estimation and Measurement)

### How do we do this?

- Review EVERY day!!
- Make sure it is: cumulative, time-saving, addresses a variety of math topics, involves good follow-up questions.
- Include a number fact, an estimate, a term, a skill, a picture, and/or a measurement every day.
- Teach specific routines to get started immediately to save time.

### What should be in an effective mathematics classroom?

- A well planned ongoing cumulative review of key skills and concepts.
- Using cumulative review to keep skills and understandings fresh, reinforce previously taught material, and give students a chance to clarify their understandings.
- Class that wastes no time.
- Use a brief review and whole-class checking of “mini-math” questions as an opportunity to re-teach when necessary.

### Journal

- How will your teaching change because of the use of Shift #1?

### Task/Plan

- In teams of two continue working with the same lesson from Envision, this time generating ideas for review (represented within "Anticipatory Set" phase of the Core and More).